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Chips: Broadcom Announces Single-Chip Cable Modern Solution for Europe; New	
Compliant Chip Enables Interoperable Cable Modern Standard for Europe.(custon	
BCM3300 for European market)(Product Announcement) EDGE, On & About AT&T, Oct 26, 1998	Govad DSL Covad saves vs Verizon C Broadband E Business
Broadcom Corporation, a leading developer of integrated circuits enabling high-speed	wyw covad.com
broadband communications to the home and business, Monday announced the	
availability of the industry's first single-chip communications solution for cable moderns	
customized for the European market. The chip is compliant with the recently-approved	
International Telecommunications Union (TTU-T) 3.112 cable modern standard and will	
provide European cable operators and consumers with interoperable cable modems at	Cable Mode
extremely competitive prices. Broadcom developed the chip to address the accelerating	Compare pri-
demand for high speed Internet access and Voice over IP (VoIP) applications within	Cables and (www1.PriceTool
Europe.	
*Broadcom's single-chip solution represents a significant milestone in the evolution of	
cable modems worldwide," said Tim Lindenfelser, Broadcom's Vice President of	
Marketing, "Developing a customized version of our BCM3300 allows us to provide a	
single-chip solution for the growing European interest in cable moderns and high-speed	DSL and Ca
Internet access. This chip will enable manufacturers to deliver advanced cable moderns	19.95/mo Shop multiple
using ag established standard that already has production-ready products that will be	at one site N

available at very attractive consumer price points. European cable operators are now in a very competitive position to provide high-speed Internet access over cable, and, by offering features such as telephony over cable, they can generate profitable new revenue streams."

About the BCM3300 The new Broadcom QAMLink cable modern chip, the BCM3300, represents the industry's first single-chip cable modern solution that includes the TTU-T J.112-compliant Media Access Controller (MAC) and DVB-compliant physical layer (PHY) transmission functions. The integrated receiver supports the DVB cable transmission Baseline System, which is based on QAM modulation with 16, 33, 64, 128 and 256-QAM constellation points together with a very powerful Forward Error Correction (FEC) decoder.

The receiver in the BCM3300 incorporates a programmable gain amplifier, a 10-bit analog-to-digital (A/D) converter, a digital demodulator, liviquist filters, tracking loops, an adaptive-decision feedback equalizer, and a DVB/DAVIC-compatible forward error correction (FEC) decoder. The receiver supports variable baud rates up to 7 Mbaud to support data rates up to 56 Mbps using 256-QAM in an 8 MHz channel. The integrated transmitter features a programmable FEC encoder, a variable rate QPSK/16-QAM modulator capable of 20 Mbps upstream data rates, and a 10-bit D/A converter which

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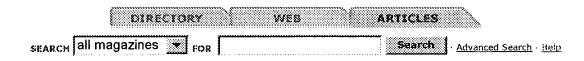
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can directly output a 0-65 MHz digitally-tunable RF center frequency.

The integrated MAC supervises the upstream and downstream functions as specified by the ITU-T 1.112 MAC protocol, including advanced Quality of Service (Qo5) features, fragmentation of packets to support constant bit rate services such as VoIP, sophisticated filtering to support multicast services and multiple service IDs so the user can have more than one PC connected to the modern. The integrated MAC also includes baseline privacy encryption/decryption for Internet security with 40/56-bit DES Cipher Block Chaining with Residual Block Termination. The MAC is based on a variable length Internet Protocol (IP) packet architecture.

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